

Date: Sun, 26 Sep 93 02:02:31 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1141
To: Info-Hams

Info-Hams Digest Sun, 26 Sep 93 Volume 93 : Issue 1141

Today's Topics:

 ARLP038 Propagation
Daily Solar Geophysical Data Broadcast for 25 September
FCC Preempts scanner laws for amateur transcievers
 HDN Releases (2 msgs)
Linear OK for Tech-plus?? (Answer)
 MFJ-949E antenna tuner
RS HTX-202 a good buy at \$199?
 T77C
Ten Tec Scout 555 Information
which freqs will FCC sell? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 24 Sep 1993 22:21:43 GMT
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!math.ohio-state.edu!
pacific.mps.ohio-state.edu!linac!uchinews!spssig.spss.com!feenix.metronet.com!
marcbg@network.ucsd.edu
Subject: ARLP038 Propagation
To: info-hams@ucsd.edu

SB PROP @ ARL \$ARLP038
ARLP038 Propagation de KT7H

ZCZC AP99
QST de W1AW
Propagation Forecast Bulletin 38 ARLP038

>From Tad Cook, KT7H
Seattle, WA September 24, 1993
To all radio amateurs

SB PROP ARL ARLP038
ARLP038 Propagation de KT7H

Solar activity is still very low. On September 22 the Sun had no spots. Solar flux over the past week was only slightly higher than the previous week, but on every day it was lower than the average for the previous ninety days. Geomagnetic conditions were quiet. The A index was zero much of the time, and only reached four on two occasions. This has meant more stable conditions on the lower bands.

Solar flux will rise a little over the near term, but should only reach 95 around October 7 through 10 before drifting down again. The geomagnetic field will be quiet, except for September 30 and October 10, when recurring coronal holes may cause some upsets.

Sunspot Numbers from September 16 through 22 were 37, 27, 52, 18, 19, 25 and 0, with a mean of 25.4. 10.7 cm flux was 88, 85, 85.2, 84.3, 79.7, 80.0 and 79.2, with a mean of 83.1.

The updated version of the WA4TTK solar graph program is now available for download from the ARRL BBS at 203-666-0578. Look for the file SOL25-2.ZIP.

The path projection is for this weekend's RTTY DX contest, and is for a route from Marietta, Georgia to Fiji.

80 meters should be open from 0500z to 1300z, peaking from 0700z to 1130z. 40 meters should be good from 0400z to 1330z, and best from 0530z to 1130z. 30 meters should be usable from 0330z to 1400z, and best from 0500z to 1230z. 20 meters should be open on most days from 0200z to 0330z and from 1300z to 1430z, and on a few days during most of the period in between. 17 meters should be good from 1800z to 2000z and 0000z to 0200z, and on some days on until 0530z. 15 meters should be good from 1800z to 0100z, and on some days on until 0330z. 12 meters should be good on many days from 1830z to 2330z, and on a few days until 0230z. 10 meters should be open one some days from 1830z to 2300z, with the best bet right around 2000z.

NNNN

/EX

--
/ Marc Grant N5MEI / marchbg@metronet.com /
/ POB 850472 / marchbg@esy.com /
/ Richardson, TX 75085 / 214-231-3998 (voice) /
/ / 214-231-0025 (fax) /

Date: 26 Sep 93 08:22:08 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 25 September
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 268, 09/25/93
10.7 FLUX=096.0 90-AVG=093 SSN=060 BKI=2122 3322 BAI=008
BGND-XRAY=B3.0 FLU1=1.2E+05 FLU10=3.5E+04 PKI=2022 3333 PAI=009
BOU-DEV=010,006,014,012,021,020,015,017 DEV-AVG=014 NT SWF=00:000
XRAY-MAX= C2.3 @ 2045UT XRAY-MIN= B1.7 @ 0646UT XRAY-AVG= B6.6
NEUTN-MAX= +000% @ 1945UT NEUTN-MIN= -005% @ 2330UT NEUTN-AVG= -2.7%
PCA-MAX= +0.1DB @ 1645UT PCA-MIN= -0.3DB @ 2025UT PCA-AVG= +0.0DB
BOUTF-MAX=55368NT @ 2155UT BOUTF-MIN=55346NT @ 1731UT BOUTF-AVG=55360NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+073,+000,+000
GOES6-MAX=P:+120NT@ 1524UT GOES6-MIN=N:-060NT@ 1602UT G6-AVG=+091,-002,-041
FLUXFCST=STD:100,100,095;SESC:100,100,095 BAI/PAI-FCST=010,010,005/010,010,010
KFCST=2334 4222 2334 4222 27DAY-AP=010,006 27DAY-KP=3332 2223 2231 1212
WARNINGS=*SWF;*PROTON;*FORBUSH
ALERTS=**SWEEP:II=2@0244-0320UTC
!!END-DATA!!

NOTE: The Effective Sunspot Number for 24 SEP 93 was 38.0.
The Full Kp Indices for 24 SEP 93 are: 3+ 1- 2+ 3- 3o 3o 3o 4-

Date: Sat, 25 Sep 1993 17:34:48 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!news2.uunet.ca!xenitec!mks.com!
richw@network.ucsd.edu
Subject: FCC Preempts scanner laws for amateur transcievers
To: info-hams@ucsd.edu

Despite the recent FCC ruling that state and local laws restricting the possession or use of ham gear under "scanner" restrictions are preempted by federal law, it is still possible that hams in some parts of the US will have to pursue the matter through the courts in order to get this preemption recognized.

In my former home state of California, for instance, the state constitution specifies that no state agency may refuse to enforce a state law or regulation on the basis of an alleged conflict with federal law or the state constitution, =unless= the state law/regulation has been struck down by a federal court or a state appellate court.

I wouldn't be at all surprised if similar provisions existed in other states.

Presumably, the best way to handle this issue would be for hams in areas where "anti-scanner" laws could affect them to approach their legislators and attempt to get the laws in question changed to conform to the new FCC ruling.

--
Rich Wales (VE3HKZ, WA6SGA/VE3) // Mortice Kern Systems Inc.
richw@mks.com // 35 King Street North
+1 (519) 884-2251 // Waterloo, Ontario, Canada N2J 2W9

Date: Sat, 25 Sep 1993 01:34:06
From: yeshua.marcam.com!news.kei.com!news.oc.com!utacfd.uta.edu!rwsys!ocitor!
FredGate@uunet.uu.net
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Saturday 09-25-93 at 1:124/7009:

HAMMODS [HAM: Radio and equip modifications]

NEWMOD17.ZIP (34196 bytes) revised update #17 to MODS database
NEWMOD18.ZIP (49557 bytes) Update #18 to MODS database

83753 bytes in 2 file(s)

Total of 83753 bytes in 2 file(s)

Files are available via Anonymous-FTP from ftp.ieee.org

Directories are:

pub/fidonet/ham/hamnews (Bulletins)
 /hamant (Antennas)
 /hamsat (Sat. prg/Amsat Bulletins)
 /hampack (Packet)

/hamelec (Formulas)
/hamtrain (Training Material)
/hamlog (Logging Programs)
/hamcomm (APLink/JvFax/Rtty/etc)
/hammods (Equip modification)
/hamswl (SWBC Skeds/Frequencies)
/hamscan (Scanner Frequencies)
/hamutil (Operating aids/utils)
/hamsrc (Source code to programs)
/hamdemo (Demos of new ham software)
/hamnos (TCP/IP and NOS related software)

lee - wa5eha

Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: Sat, 25 Sep 1993 10:53:07
From: swrinde!elroy.jpl.nasa.gov!usc!sol.ctr.columbia.edu!news.kei.com!
news.oc.com!utacfd.uta.edu!rwsys!ocitor!FredGate@network.ucsd.edu
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Saturday 09-25-93 at 1:124/7009:

HAMNEWS [HAM: Bulletins and Newsletters]

ARLB098.LZH (631 bytes) ARRL Bulletin 09/16/93
OPDX128.LZH (2592 bytes) Ohio-Pa Packet Cluster DX Bulletin
09/20/93

3223 bytes in 2 file(s)

HAMSAT [HAM: Satellite tracking and finding programs]

AMSAT261.LZH (6170 bytes) AMSAT Bulletin # 261 09/18/93
OBS261.LZH (4564 bytes) Amsat Orbital Elements # 261
09/18/93
SPC0920.LZH (2653 bytes) SPACE Bulletin 09/20/93

13387 bytes in 3 file(s)

HAMSWL [HAM: Shortwave broadcast schedule distribution]

DXHUMR22.LZH (2714 bytes) QSL Reports
SCDX2187.LZH (12350 bytes) Sweden Calling DX #2187 09/21/93

15064 bytes in 2 file(s)

Total of 31674 bytes in 7 file(s)

Files are available via Anonymous-FTP from ftp.ieee.org

Directories are:

pub/fidonet/ham/hamnews (Bulletins)
/hamant (Antennas)
/hamsat (Sat. prg/Amsat Bulletins)
/hampack (Packet)
/hamelec (Formulas)
/hamtrain (Training Material)
/hamlog (Logging Programs)
/hamcomm (APLink/JvFax/Rtty/etc)
/hammods (Equip modification)
/hamswl (SWBC Skeds/Frequencies)
/hamscan (Scanner Frequencies)
/hamutil (Operating aids/utils)
/hamsrc (Source code to programs)
/hamdemo (Demos of new ham software)
/hamnos (TCP/IP and NOS related software)

lee - wa5eha

Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: 25 Sep 93 21:41:20 GMT
From: news-mail-gateway@ucsd.edu
Subject: Linear OK for Tech-plus?? (Answer)
To: info-hams@ucsd.edu

Doug, N0Y??, asks a few questions. Since I'm too lazy to type his LONG return address.. here goes for all to see.

He asks:

> Could somebody please clarify some questions about linear amplifiers for me?
me> I'll try.

> Here is more or less what I'm interested in having explained.

> 1. What exactly constitutes a linear amplifier?

```
>      2.      What specific class of license do you have to have to
>              use one?  I think it's general, but the texts I've studied
>              from aren't totally clear.
>      3.      I recently came across a design for "A 2-Meter FET Amplifier
>              for Your Handheld" from the October '92 "73" 'zine.  Is this
>              legal for me to operate as a Tech Plus?
```

Welcome and best wishes.

>>>>>>>>>>>>>>>>>> STANDARD DISCLAIMER <<<<<<<<<<<<<<<<<<

From: swrinde!cs.utexas.edu!math.ohio-state.edu!howland.reston.ans.net!xlink.net!
scsing.switch.ch!ulysse.ch!cedric@network.ucsd.edu
Subject: MFJ-949E antenna tuner
To: info-hams@ucsd.edu

As I don't have a TX yet, I couldn't test it until now. I've noticed that the reception is bad vs. a long wire that goes directly to the 300 Ohms entry of my receiver.
Does the MFJ need a good ground even in RX only?

73 de Cedric, HB9HFN

From: mdisea!mothost!schbbs!news@uunet.uu.net

Subject: RS HTX-202 a good buy at \$199?
To: info-hams@ucsd.edu

Having seen a scattering of comments on the RS HT-202, it has not yet been clear to me whether it is a good/average/bad unit. It's on sale until 9/25 (tomorrow) for \$199.95, and I need to make a decision about buying one.

Recommendations from people familiar with it would be very much appreciated. Response by email might be best (I've no idea whether other readers would be interested in the responses).

Thanks,
Tony Briggs

Date: Sat, 25 Sep 1993 12:36:28 -0400
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!fs7.ece.cmu.edu!
news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!kp2a+@ames.arpa
Subject: T77C
To: info-hams@ucsd.edu

Does anyone know the QSL route for T77C -- Tony in San Marino?

Thanks.

Keith Poole K7MOA/3

Date: Sat, 25 Sep 1993 14:16:35 GMT
From: gsm001!gsm001.mendelson.com!gsmlrn@uunet.uu.net
Subject: Ten Tec Scout 555 Information
To: info-hams@ucsd.edu

In article <01H3BF07MWIQ00ANOF@utrcgw.utc.com> BONCZEK@hswdl.utc.COM
(F/A-18 E/F ACSC Development) writes:

>Does anyone have any experience with the new Ten Tec mobile radio: Scout 555?
>

>I was looking for a ten meter mobile for this winter. Several people told me
>that with the ten meter band not being that good this winter I should look
>into the Scout 555. It's a HF mobile that cover 10m thru 80m. It comes with
>one module for any band.

>
>The Ten Tec ad says \$495.00 including one module, \$25.00 for each extra module.
>How good are there radios? Are there any used ones out there? Any good or bad
>experience?

If all you want is a ten meter rig, there are many more available much cheaper.

The Uniden 2510/2600 are available used for about \$160 from AES. They sell the 2600 new for \$199. The radios are am/fm/ssb/cw. Expect to pay less at a hamfest or swap net.

The Radio Shack version (ssb/cw only) sells "new" from the R/S outlet at Franklin Mills Mall for \$159. Used ones go for about \$100.

There are also the Ranger (of out of band CB fame). They go for similar prices as the Unidens. Also, buying a used Ranger is another way to help get out of band CBers off they air. :-)

Besides the high price (\$500 for the radio plus \$150 if you want 80/40/17/15/12/20/10 bands), The scout has a large receive current draw. I personally don't like the idea of changing modules to switch bands. It's fine if you have a neat, organized shack. Driving along at 55 mph it could be a nightmare.

There are lots of used multiband mobile hf rigs in the \$500-\$600 range.

73

Geoff

--

Geoffrey S. Mendelson N3OWJ

(215) 242-8712

gsm@mendelson.com or uunet!gsm001!gsm

Date: Sun, 26 Sep 1993 01:08:41 GMT

From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!agate!tcsi.tcs.com!

iat.holonet.net!bwilkins@network.ucsd.edu

Subject: which freqs will FCC sell?

To: info-hams@ucsd.edu

furr@pilot.njin.net (Grover Furr) writes:

:

: The New York Times articles about the FCC's intentions to sell
: frequencies for commercial communications have NOT stated where these
: frequencies to be sold are in the spectrum. Nor have they mentioned
: the Amateur service in any way.

:

: Does anybody know what frequencies will be put up for sale and

: what, if any, the impact will be on amateur frequencies and requests
: (if any) for future freq allotments?
:
:
: * * * * *

Certain 14.313 MHz and adjacent frequencies
Certain 3.905 MHz and adjacent frequencies
Certain 7.258 Mhz and adjacent frequencies
Certain 28.325 MHz and adjacent frequencies

The impact of these folks moving to a frequency near you could be
devastating. I recommend that we pull together and buy these frequencies
and lease back the spectrum to the current occupants.

Seriously the current spectrum under consideration is the 1800 MHz to 2000
MHz or known as the 2 gig microwave band. While we are fighting for
spectrum to put up yet another beep-boop two meter repeater, the Japanese
have put up over 75 2.4 GHz amateur repeaters. The band does work. Once
the commercial fellows find out they can make money on their investment
they will want more spectrum. The two meg grab of 220-222 is nothing
compared to what will happen to the amateur microwave bands.

bob n6fri

--

Bob Wilkins n6fri voice 440.250+ 100pl san francisco bay area
bwilkins@cave.org packet n6fri @ n6eeg.#nocal.ca.usa.na

Date: 24 Sep 93 14:37:27 GMT
From: agate!howland.reston.ans.net!newsserver.jvnc.net!igor.rutgers.edu!
dziuxsolim.rutgers.edu!pilot.njin.net!furr@ames.arpa
Subject: which freqs will FCC sell?
To: info-hams@ucsd.edu

The New York Times articles about the FCC's intentions to sell
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the Amateur service in any way.

Does anybody know what frequencies will be put up for sale and
what, if any, the impact will be on amateur frequencies and requests
(if any) for future freq allotments?

* * * * *
Grover C. Furr

Home: 121 Oakland Terrace Work: English Department
Newark, NJ 07106 Montclair State College
ARS AA2GP Upper Montclair, NJ 07043
email: Preferred: furr@saturn.montclair.edu (201) 655-7305
Also valid: furr@pilot.njin.net
furr@apollo.montclair.edu

* * * * *

Date: Sat, 25 Sep 1993 15:20:45 GMT
From: swrinde!elroy.jpl.nasa.gov!usc!math.ohio-state.edu!magnus.acs.ohio-
state.edu!usenet.ins.cwru.edu!news.ecn.bgu.edu!anaxagoras.ils.nwu.edu!
news.acns.nwu.edu!news.eecs.nwu.edu!gagme!n5ial
To: info-hams@ucsd.edu

References <CDt4yr.CM3@cbnewsc.cb.att.com>,
<1993Sep23.135607.3571@porthos.cc.bellcore.com>,
<CDtH1w.It8@cbnewsc.cb.att.com>cns.nw
Reply-To : n5ial!jim@gagme.chi.il.us
Subject : Re: FCC Preempts scanner laws for amateur transcievers

Note the Reply-To address (and the corresponding note in my .signature)!
This is temporary, but for the next week or so, it's important.

In article <CDtH1w.It8@cbnewsc.cb.att.com> k9jma@cbnewsc.cb.att.com
(edwin.m.schaefer) writes:

>Gee, that seems pretty extreme. I have a 2m mobile rig (HW2036) always in
>the car but, recognizing that many government agents are hostile to
>or uncomfortable with people with radios and may react negatively, I:
>
>1. Keep the rig concealed from outside view (covered by cloth drape that
>matches car interior colors) (anti-theft measure, too).

Not a bad idea when you leave the car/truck unattended, but certainly not
needed when you're in the car....

>2. Conceal the antenna. Loaded quarter wave looks like cell-phone (this needs
>more work).

That's making you a bigger target for theft than you would have been (I
think...if I'm not mistaken, cell phones are a much juicier target for
thieves than amateur transceivers). And there is no reason why you need

to hide your antenna from the police.

>3. Never have the radio turned on (RX or TX in use) when an agent of any
>government agency not known_to_me to be friendly to the use of
>personal radio equipment can see or hear it.

This is going way too far, IMHO. You have a legal license which allows you to operate on the amateur radio frequencies (or at least, a subset of those frequencies, depending on your license class). The FCC has ruled, in no uncertain terms, that it is completely legal for you to have amateur radio transceivers in your possession, and that local/state laws that say otherwise based on the fact that you are able to receive public safety, police, etc. frequencies are preempted by federal law.

In other words, you aren't a criminal just because you happen to have a radio which you are licensed to operate. Don't act like you have to hide as if you were a criminal.

Of course, you don't want to wave the license in their face if they ask you about it, either. Just politely and **RESPECTFULLY** explain things to them.

>4. Never transmit where there is any possibility of any government
>agent being able to hear anything on his radio (desense, spurs)
>that might cause him to look around and see me.

See above. Frankly, if I see a Deputy Sheriff (we don't have a local police department---only the sheriff's office) pull up beside me, and I'm in the middle of a conversation, I don't worry about it. If I'm in an area where I have to run higher power (i.e., kick in the 45W amp) to hit the repeater (its hearing isn't that good at times, but its output is), so be it. If they give me funny looks, oh well.... (Of course, they never do.)

>5. Don't talk about radio first. If they ask, even though I tried hard to
>make that unlikely, always answer questions conservatively, i.e.:
>"Yes, sir. That's a FCC licensed transceiver that I use to talk to other
>licensed radio stations." Be truthful, but volunteer_nothing.

Well, I can't see why you would talk about radio first (I'm assuming you are referring to being pulled over, or something like that), but that's another story. :-)

Either way, again, as long as you're not breaking the law, you have nothing to hide. Don't act like you do. In fact, I wouldn't be surprised if you actually attracted **MORE** attention by going to such great lengths to hide the fact that you have the radio than you would if it were out in the open about it. After all, if you weren't doing anything illegal, why would you be so secretive around law enforcement officials? Think about it....

--jim

--

```
#include <std_disclaimer.h>                                73 DE N5IAL (/4)
-----< Running Linux 0.99 PL10 >-----
*** E-mail to me from now until roughly 2 Oct.: n5ial!jim@gagme.chi.il.us ***
AMATEUR RADIO: (packet station temporarily offline)        AMTOR SELCAL: NIAL
internet: jim@n5ial.mythical.com | j.graham@ieee.org        ICBM: 30.23N 86.32W
-----
E-mail me for information about KAMterm (host mode for Kantronics TNCs).
```

Date: 24 Sep 93 16:39:41 GMT
From: olivea!gossip.pyramid.com!pyramid!infmtx!infmtx!randall@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Sep17.204130.16148@cyphyn.radnet.com>,
<27gneo\$b23@hobbes.cc.uga.edu>, <holdwick_marc-200993114327@136.182.219.61>M
Subject : Re: Antenna Covenants AGAIN (but now with a twist!)

holdwick_marc@macmail1.rtsg.mot.com (Marc Holdwick) writes:

```
>> >[article advising hams to tell realtors that they won't buy the house
>> >[if there are covenants against antennas]
>"we (the FCC) have no interest in covenants, because it is by the
>buyers/leasers choice to buy/lease the property" (paraphrased).
>This might have been the case 15 years ago, but I'll be willing to bet that
>most ANY new housing has covenants restricting (usually banning) antennas.
>I'm sure most developers (like apartment landlords) use "boilerplate" legal
>documents from a real estate manual of some sort. It's starting to seem
>like less and less of a "choice" anymore...
```

This is correct. In my experience in both Kansas and California, there are very few new housing developments that have no restrictions on antennas. Many CC&Rs/Deed-Restrictions (including my subdivision) ban all external antennas altogether, even satellite dishes and TV antennas.

Why did I buy a house with such a restriction if I am a ham? Because subdivisions that have no deed restrictions offer no protection against neighbors who let their property deteriorate or do something strange to it, like painting their house florescent pink or building some horrendous structure. In this era of stagnant real estate prices, having a next door neighbor with a pink house (or, dare I say, a tower and beam) could cause a significant drop in value of my home. With so many other houses on the market, a potential buyer can simply look in another neighborhood if he doesn't like what he sees in yours. The financial

impact on me could run tens of thousands of dollars, and I cannot afford it.

For some reason, people do not like antennas. Towers and beams are considered to be ugly and potentially dangerous sources of electromagnetic radiation. (Whether or not there is scientific evidence to back this up is irrelevant.) When I sell my house, the potential buyer sees the tower next door, then walks away. I wish things were different, but they're not.

I therefore live with the AEA Isolooop and the dipole in the attic. I work plenty of DX. I will never win a contest on 20m, but I still have fun. I'd love to have a kilowatt and a quad, but I can't, so I live with what I have. I would overturn the restrictions on antennas and leave the other restrictions alone, but that is not possible either.

We are living in a different era now. The deed restriction problem will not go away. It is very unlikely that any court or legislative body will make it go away. I'm not saying that's right, I am only saying it's reality.

73 DE KG0HW

End of Info-Hams Digest V93 #1141
